



**BOI FreeDa** :::::  
Free Your Database

➔ **CLOUD MODERNIZATION OF A COMPLEX  
ENTERPRISE SOLUTION FOR  
MAINTAINING CRITICAL (MASTER) DATA**

Use Case

**BOI** BETTER  
ORGANIZED  
INFORMATION

**BOI Software Entwicklung und Vertrieb GmbH**  
Over 45 years of success and innovation.  
Your expert for table management.

We develop innovative software solutions  
for audit-proof data maintenance and high-  
performance data access to better organize  
the management of your critical data.

USE CASE

# Cloud modernization of a complex enterprise solution for maintaining critical (master) data



## Challenge

A leading European vehicle manufacturer uses a mainframe solution developed in-house to control the entire production process – from development through configuration and production to sales. At the heart of this solution is a complex master data maintenance system comprising several hundred tables, complex data models, hierarchical logic, and an extensive set of PL/I rules.

Several hundred users across Europe work with this system, which had high data complexity and increasing maintenance costs. The modernization and cloud migration are aimed to significantly reduce the need for custom development.

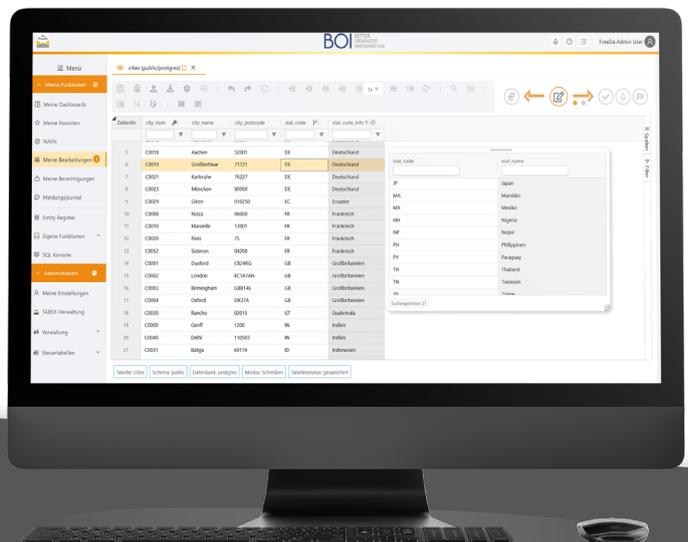


## Goals

The goal is the introduction of a scalable standard software for master data maintenance in the cloud that will

- ➔ enable parallel use by up to 100 simultaneous users,
- ➔ handles large volumes of data and tables efficiently,
- ➔ implements complex data models, validation rules, and audit compliance via configuration instead of programming,
- ➔ and can be flexibly integrated into existing business processes.

The BOI FreeDa logging shows seamlessly who changed and activated what and when.





## Solution with BOI FreeDa – standard software meets configuration power

With **BOI FreeDa**, modernization can be implemented quickly and efficiently without costly redevelopment. All customer requirements are mapped through configuration without individual programming, from data entry and automated processes to audit-proof data release.

### Manual data maintenance in the cloud – secure and intuitive

- Multi-client maintenance processes with 2-, 4 or 6- eyes principle
- Structured input even for complex data models thanks to parent-child dependencies between tables
- Configurable validation rules for all entries
- Maintenance via packages: group tables logically and activate them together
- Audit-proof logging of all maintenance activities, including data changes

### Automation with BOI FreeDa scripts and an external rule set.

- Import of external data records status for further processing in the defined maintenance process
- Export of activated and modified data sets for transfer to third-party systems, e.g., SAP®, billing, production planning, etc.



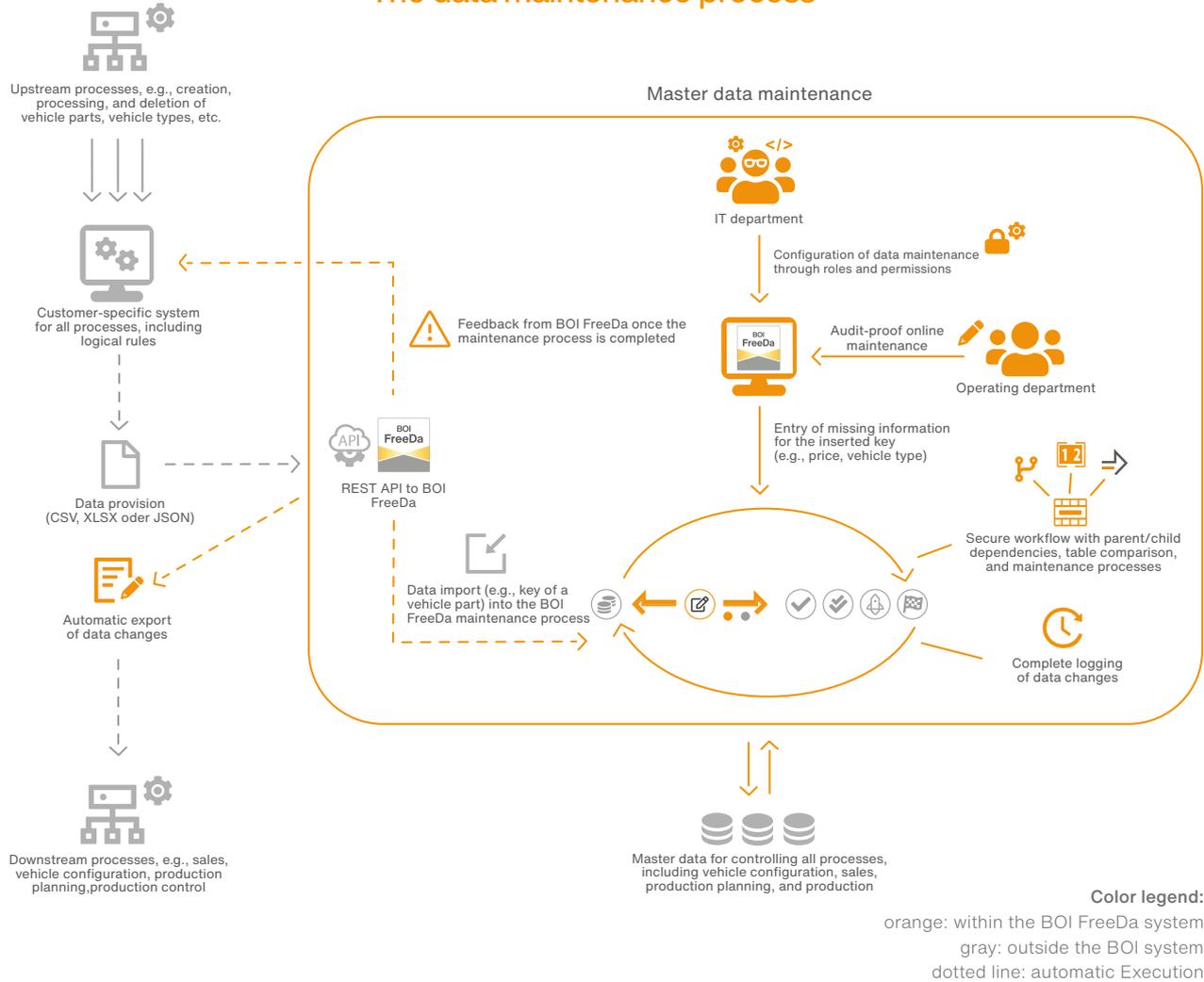
## Benefits for the customer

**BOI FreeDa** replaces the previously developed mainframe solution with a future-proof, standardized cloud solution – configurable, low-maintenance, and ready for immediate use.

### Advantages at a glance

- Replacement of a complex PL/I system with a configurable standard solution
- Elimination of custom development – while maintaining maximum flexibility
- Significant time and cost savings
- Providing long-term support and expert consulting from BOI

## The data maintenance process



### The process workflow

The IT department uses table processes, roles, and authorizations to configure data maintenance, also using external systems. Employees from the operating departments edit existing data records via the **BOI FreeDa** online interface without needing database knowledge, based on the defined table maintenance processes. Data changes are only activated in the databases once the table maintenance processes in **BOI FreeDa** are complete.

Creation of new master data: New master data (e.g., new vehicle parts) is recorded in the upstream processes. This new data must be enriched with additional information from the operating departments before being transferred to the databases. This data is transmitted in various formats (e.g., CSV, XLSX) from the customer's control system to **BOI FreeDa** via a REST API.

**BOI FreeDa** then transfers this data to the correct table based on rules and processes and completes it with the operating department in a secure workflow with full logging. **BOI FreeDa's** logical checks ensure the accuracy of the entries. Once the table maintenance process is complete, the control program is notified, and the entire data record is exported via a **BOI FreeDa** REST interface. The data is then passed to downstream processes.



### For those interested in the technical details

- Installation of **BOI FreeDa** in the AWS cloud directly in the customer environments
- Deployment of the business solution via three completely separate environments, each of which is maintained via a **BOI FreeDa** installation
- Data connection to **BOI FreeDa** via JDBC
- Role and authorization concept via OAuth
- Single sign-on via OAuth
- Control of all processes via the customer's own set of rules, which triggers automated **BOI FreeDa** processes via REST interfaces
- Separation of data storage and maintenance, as data changes are stored within **BOI FreeDa** throughout the entire maintenance process and only become visible to external systems once activated in the source database

## Are you interested in BOI FreeDa?

Please feel free to contact us! Our team will advise you individually and answer all your questions about **BOI FreeDa**. Together, we will determine how our solution can best support your company.

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# BOI – FOR YOUR BETTER ORGANIZED INFORMATION

## → Convincing Quality

Efficient and audit-proof. High-performance and ultra-fast. Company-wide use for all databases and operating systems.

## → Efficient Service

Over 45 years of experience. Excellent, dedicated team. One-stop consulting, technology and implementation.

## BOI - We set an example.

- Our vision is a society in which economic management goes hand in hand with social commitment and ecological action.
- Our mission is to make the best possible contribution to ensuring sustainable development on an economic, social and ecological level.
- We want to operate in a net zero manner from 2026 and are already taking numerous measures to reduce our greenhouse gas emissions.
- We pay attention to the well-being of our employees and take measures to protect their health.
- We consistently donate 10% of our annual profit to social and environmental organizations.



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